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6 pp.

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NIH 5-23-61

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of Cellulose Esters, by V. A. Kargin, D. I.
Leipunskaya.
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NLL 5828.4F (11749)

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JPRS 15830

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AMS BJ-1505

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IN THE SYSTEM: METHYL METHACRYLATE-ZINC
CHLORIDE. [1961] [7]p. 8 refs.
Order from OTS or SLA \$1.10

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Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1950, v. 2 [no. 5] p. 756-769.

DESCRIPTORS: *Methyl radicals, *Polymers, *Zinc
compounds, *Chlorides, Phase transitions, Micro-
structure, Molecular structure, Polymerization.

It has been shown that an isotactic polymer is pro-
duced in the radical-induced polymerization of methyl
methacrylate at room temperature in the presence of
zinc chloride dissolved in the monomer. The effect of
the conformation of the reactant molecules in the
transitional state on formation of the microstructure
(Chemistry--Organic, TT, v. 7, no. 10) (over)

- I. Kargin, V. A.
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- IV. Translations, New York

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Some Properties of Starch-Methyl Methyl
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Vol I, No 10, 1959, pp 1547-1551.

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Sci - Chem

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DESCRIPTORS: *Ethylenes, *Fluorides, Polymers,
Sintering, Optical analysis, *Electron microscopy.

61-25333

- I. Title: Ftoroplast-4
- I. Kargin, V. A.
- II. Gorina, A. A.
- III. Koretskaya, T. A.
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Kargin, V. A. and Malinski, U. M.
THE INFLUENCE OF MOLECULAR WEIGHT ON
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TRANSITIONS. [1963] 6p 7refs
Order from OTS, SLA, or ETC \$1.10 TT-63-20518

Trans. of [Akademiya Nauk SSSR. Doklady] 1950,
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DESCRIPTORS: *Polyvinyl chloride, Temperature,
Molecular weight, Phase studies.

(Materials--Plastics, TT, v. 11, no. 2)

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MECHANICAL-CHEMICAL POLYMERIZATION OF
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RELAXATION EFFECTS IN CRYSTALLINE POL-
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Order from OTS or SLA \$1.10 63-14311

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DESCRIPTORS: *Polymers, *Ethylenes, *Propenes,
*Relaxation time, Crystallization, Transition tem-
perature, *Phase studies, Polyethylene plastics.

The relaxation properties of crystalline polyolefins
were investigated over a wide range of temperatures
under conditions of sinusoidal force action of constant
amplitude. Under such conditions the crystalline
polymers were found to possess a broad relaxation
spectrum over the entire interval from T_g to T_f . The
importance of determining the character of the
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ATS RJ-2124

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Sci - Chem

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ATS RJ-2127

Sci - Chem

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OTS 61-25731
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1941, pp 1034-1054.
NLL 8828.47 (11854)

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Sci - Chem
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SLA 60-17723

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Elastic Flow of Polyvinyl Chloride
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9 Mar 61, 4p. 8 refs. Courtaulds Misc. Lit. 3282;
[DSIR LLU] M. 3203.

Order from OTS or SLA \$1. 10

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Trans. of Akad[emiya] Nauk SSSR. Doklady, 1960,
v. 134, no. 5, p. 1098-1099.

DESCRIPTORS: *Polymerization, *Acetones.

This investigation of acetone polymerization indicates
that by applying the principle of preliminary orientation
of monomer molecules in the reaction system it is
possible to polymerize substances, which do not poly-
merize under normal conditions. In this case the ori-
entation was obtained by crystallization of the monomer.
The conditions, favouring kinetically the formation of
polymer chains from the oriented monomer molecules,
(Chemistry--Organic, TT, v. 6, no. 11) (over)

61-27645

- I. Kargin, V. A.
- II. Kabanov, V. A.
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SLA R-2775

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Kargin, V. A. and Malinaki, U. M.
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TEMPERATURES OF POLYSTYRENE TRANSITIONS.
[1963] [6p] 2refs
Order from OTS, SLA, or ETC \$1.10 TT-63-20517

Trans. of [Akademiya Nauk SSSR. Doklady] 1950,
v. 72, no. 5, p. 915-918.

DESCRIPTORS: *Styrene plastics, Polymers, Tempera-
ture, Molecular weight, Phase studies.

(Materials--Plastics, TT, v. 11, no. 2)

TT-63-20517

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INVESTIGATION OF THE STRUCTURE AND PROPERTIES OF ETHYLENE AND PROPYLENE COPOLYMERS. [1961] 7p. (2 figs. omitted) 3 refs.
Order from OTS or SLA \$1.10 62-10596

Trans. of [Vysokomolekulyarnye Soedineniya] (USSR) 1960, v. 2, no. 10, p. 1531-1534.

DESCRIPTORS: *Ethylenes, *Propenes, Mechanical properties, Molecular structure, *Polymers, Deformation, Crystals, Crystallization, Stresses.

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62-10596

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II. Markova, G. S.
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JPRS 14238

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DESCRIPTORS: *Acetonitriles, *Nitriles, *Polymeri-
zation.

(Chemistry--Organic, TT, v. 7, no. 1)

61-25554

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SLA R 2954

Sci

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Sci - Chemistry, Physics 32, 327

Comparative Study of Order Arising in Polymers
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Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4 [no. 4] p. 601-604.

DESCRIPTORS: *Fibers (Synthetic), *Dacron, *Polyester plastics, *Polyethylene plastics, *Butenes, *Fillers, Physical properties, Particle size.

As a result of the investigations it became evident that the addition of anisodiametric particles to the polymer in the absence of chemical reactions, has an important effect on the mechanical properties of the polymer even at relatively low filler concentrations. It is safe to say that the increase in the strength, modulus 50, and flow (Materials--Textiles, TT, v. 10, no. 11) (over)

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